

Dimethylbenzylamine CAS103-83-3 N-dimthylbenzylamine BDMA

PU Catalyst: BDMA (benzyldimethylamine) CAS:103-83-3

Over view:

Common Name: Benzyl Dimethyl Amine

Other Chemical Names: [N,N-Dimethylbenzylamine](#), Benzenemethamine, N,N-dimethyl-;Benzenemethanamine,N,N-dimethyl-;Benzylamine,

Physical and chemical properties:

Appearance	Form: transprant light yellow liquid
Odour	no data available
PH	10 at 10 g/l at 20 °C
Melting point/freezing point	Melting point/range: -75 °C – lit.
Initial boiling point and boiling range	181 – 184 °C at 1.020 hPa – lit.
Flash point	53 °C – closed cup
Evaporation rate	no data available
Flammability (solid, gas)	Upper explosion limit: 6,3 %(V)
Upper/lower flammability	Lower explosion limit: 0,9 %(V)

or explosive limits

Relative density 0,9 g/cm³ at 25 °C

Water solubility soluble

Partition coefficient: noctanol/water log Pow: 1,87

Molar formular C₉H₁₃N

Molar mass 135.21

Section 1: Chemical Product and Company Identification

Product Name: BDMA

Catalog Codes: Not available.

CAS#: 103-83-3

RTECS: Not available.

TSCA: Not available.

Chemical Formula: C₉H₁₃N

Contact Information:

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Features and uses:

A liquid tertiary amine catalyst. Can improve foam cure and demolding time. It is an excellent candidate to consider for use in water-NCO reaction in rigid polyurethane foams.

BDMA is typically suitable to replace DMCHA in formulations using a high level of water as blowing or co-blowing agent can reduce surface friability and improve adhesion of foam to substrates.

BDMA promotes the urethane reaction and is commonly used in high-water rigid foam applications to reduce friability. It has a characteristic but low amine odor, and is soluble in water and in most organic solvents.

BDMA is used in flexible slabstock and rigid foam applications.

It promotes the urethane reaction and is commonly used in high-water rigid foam applications to reduce friability.

BDMA is also used for flexible slabstock foam applications.

Storage Information

Recommends that our catalysts be stored in a dry and cool area under appropriate ventilation conditions. Each container should be closed tightly to avoid contamination with moisture or other negative influences that could change the products' performance in the end use.

Package:

180KG/Steel Drum

Typical Properties

Water, wt-% 1.0

Colour, Pt-Co Light yellow

Flash Point, °C 54

Density, g/ml; 20/20, °C 0.90

Freezing Point, °C -75

Boiling Point, 760mmHg, °C 183-184

Storage Information

Recommends that our catalysts be stored in a dry and cool area under appropriate ventilation conditions. Each container should be closed tightly to avoid contamination with moisture or other negative influences that could change the products' performance in the end use. The optimum storage temperature is between 10 °C and 30 °C. Lower and higher storage temperatures are not preferable and should be avoided.

BDMA

Description

BDMA promotes the urethane reaction and is commonly used in high-water rigid foam applications to reduce friability. It has a characteristic but low amine odor, and is soluble in water and in most organic solvents. .

Applications

BDMA is used in flexible slabstock and rigid foam applications.

Shelf Life

12 months/date of manufacture.

<https://www.siliconeoil.com.cn/dimethylbenzylamine-cas103-83-3-n-dimthylbenzylamine-bdma/>